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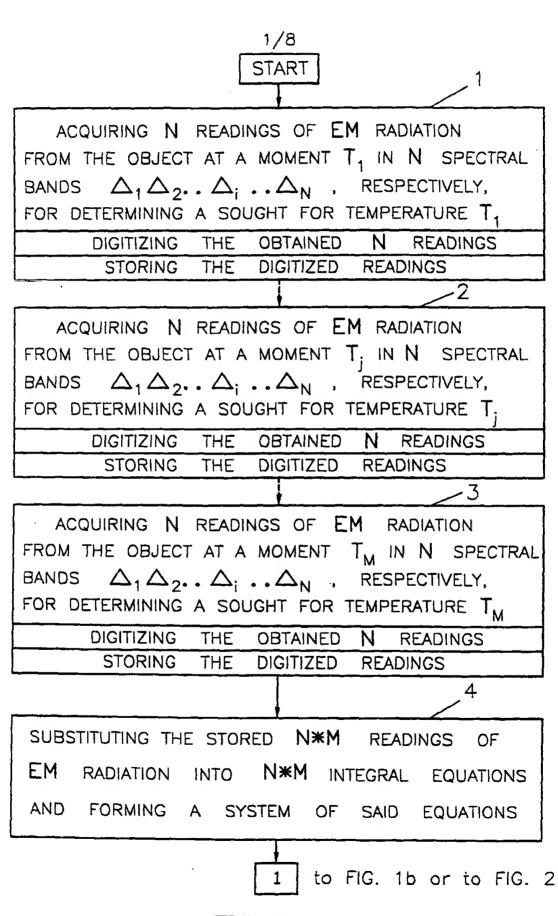


FIG. 1a SUBSTITUTE SHEET (RULE 26)

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From FIG. 1a 1

PROCESSING THE SYSTEM OF N\*M EQUATIONS, IN EACH OF WHICH THE EM RADIATION VALUE V in a particular spectral band  $\Delta_i$  is a function of temperature T and emissivity  $\mathcal E$  of the sample

$$V_{T_j}^i = f(T_j, \epsilon_i)$$

6

OBTAINING M SUCCESSIVE VALUES OF TEMPERATURE OF THE OBJECT  $(T_1 \dots T_j \dots T_M), \text{ and } \\ \text{OBTAINING N VALUES OF EMISSIVITIES} \\ (\mathcal{E}_1 \dots \mathcal{E}_i \dots \mathcal{E}_N) \text{ for N SPECTRAL BANDS,} \\ \text{RESPECTIVELY}$ 

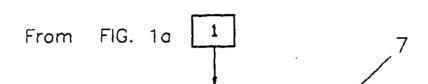
FIG. 1b

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PROCESSING THE SYSTEM OF N\*M EQUATIONS,
IN EACH OF WHICH THE EM RADIATION

VALUE V IN A PARTICULAR SPECTRAL BAND  $\triangle_i$ IS REPRESENTED AS A FUNCTION OF TEMPERATURE T

AND THE TEMPERATURE AND WAVELENGTH DEPENDENT

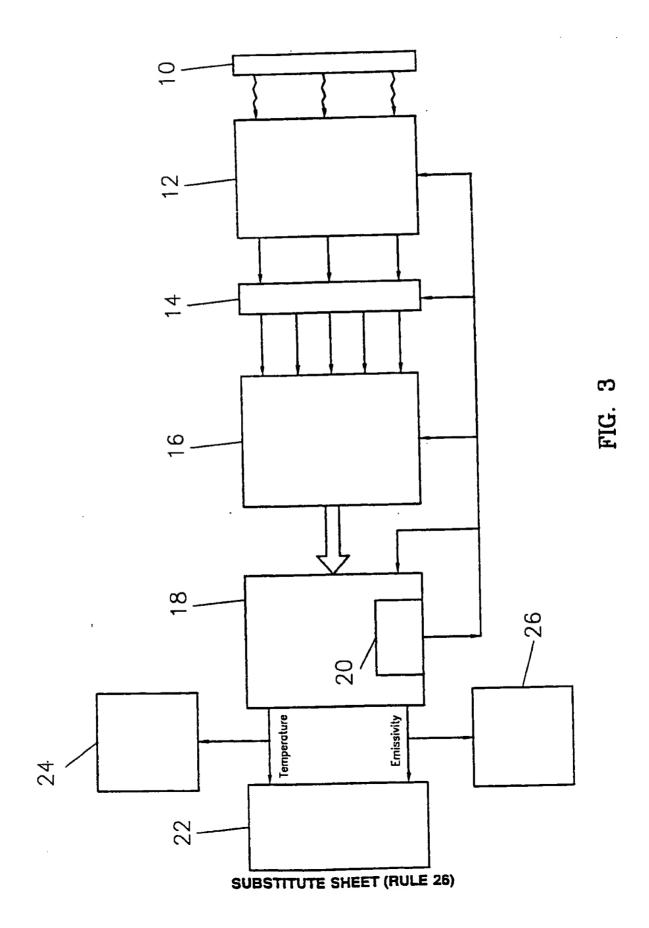
EMISSIVITY

$$V_{T_i}^i = f(T_j, \epsilon_i(\lambda, T_j))$$

OBTAINING M SUCCESSIVE VALUES OF THE OBJECT'S TEMPERATURE ( $T_1$  . . .  $T_j$  . . .  $T_M$ ) AND OBTAINING PARAMETERS OF THE FUNCTION  $\mathcal{E}_i$  ( $\lambda$ ,  $T_j$ ) FOR EACH SPECTRAL BAND  $\Delta_i$ 

FIG. 2

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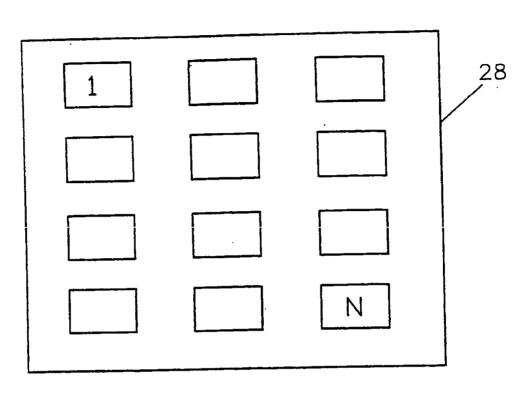


FIG. 4a

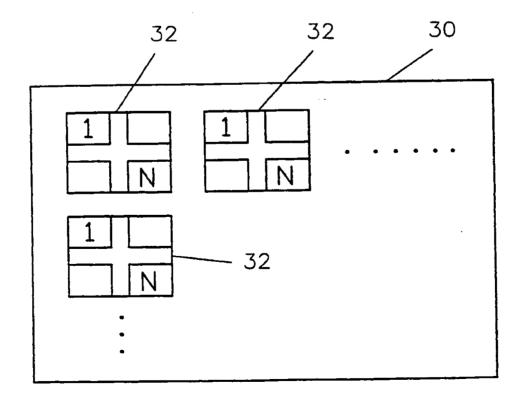
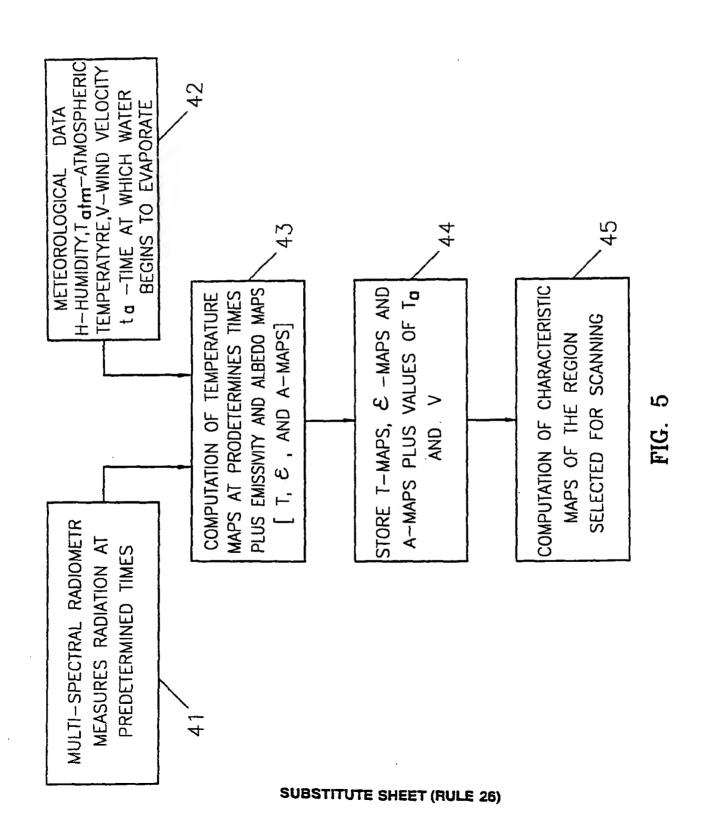


FIG. 4b SUBSTITUTE SHEET (RULE 26)



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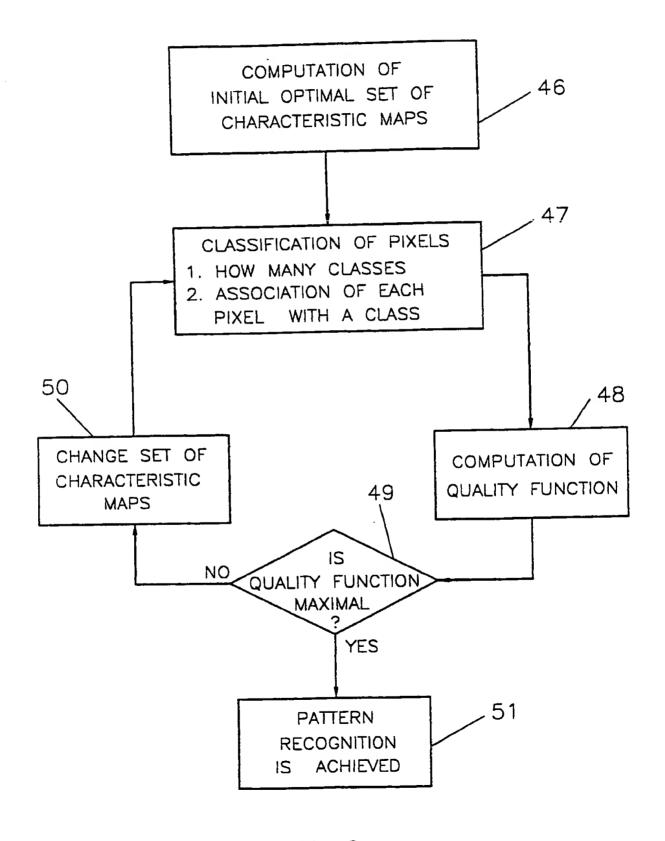


FIG. 6 SUBSTITUTE SHEET (RULE 26)

